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NOTICE OF ALLOWANCE AND FEE(S) DUE

24978 7590 05/01/2009

GREER, BURNS & CRAIN
300 S WACKER DR
25TH FLOOR
CHICAGO, IL 60606

EXAMINER

MATTHEWS, TERRELL HOWARD

ART UNIT

PAPER NUMBER

3653

DATE MAILED: 05/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,521	11/28/2005	Hans Rolf Pufal	4442.76045	9462

TITLE OF INVENTION: SIEVE JIGGER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

24978 7590 05/01/2009

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

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10/536,521	11/28/2005	Hans Rolf Pufal	4442.76045	9462

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nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/03/2009
EXAMINER	ART UNIT	CLASS-SUBCLASS				
MATTHEWS, TERRELL HOWARD	3653	209-013000				

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

- Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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GREER, BURNS & CRAIN 300 S WACKER DR 25TH FLOOR CHICAGO, IL 60606				MATTHEWS, TERRELL HOWARD
ART UNIT		PAPER NUMBER		
		3653		
DATE MAILED: 05/01/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 442 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 442 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/536,521	PUFAL ET AL.	
	Examiner	Art Unit	
	Terrell H. Matthews	3653	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 2/12/2009.
2. The allowed claim(s) is/are 7-22.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 5/25/05
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

/Patrick H. Mackey/
Supervisory Patent Examiner, Art Unit 3653

DETAILED ACTION

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claim 7 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: (1) A sieve jigger for sorting solid material mixtures in a separating liquid bath according to density comprising: a rocker mounted to pivot about a pivoting axis in the liquid bath and to carry the solid material mixtures; a hydraulic cylinder with a single working pressure chamber pivotally connected to the; a displacement measuring device operatively connected to a piston of the hydraulic cylinder and to generate a measuring device operatively connected to a piston of the hydraulic cylinder and to generate a measuring signal; a displacement sensor arranged, to receive the measuring signal from the displacement measuring device and to generate a displacement signal; a governor arranged to receive the displacement signal from the displacement sensor and to generate a control signal; a motor driven hydraulic oil pump; a hydraulic oil supply and evacuation conduit connected to the single working pressure chamber of the hydraulic cylinder; a proportional control valve communicating with located-in the hydraulic oil supply and evacuation conduit and arranged to receive the control signal from the proportional control valve being configured to have a first lifting position in which the motor driven hydraulic oil pump is connected to the single working pressure chamber via the proportional control valve, a second free-fall position in which the single

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working pressure chamber is unrestrictedly connected to a hydraulic oil sump, and a third deceleration position in which the single working pressure chamber is closed off from the hydraulic oil pump and reservoir; the displacement measuring device being operatively connected via the governor to the proportional control valve in order to control the upward movement and the downward movement of the rocker, in a first lifting phase, a second free-fall phase and a third deceleration phase, including controlling at least one of a lifting displacement and a lifting frequency.

Claim 13 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: (1) a sieve jigger for sorting solid material mixtures in a separating liquid bath according to density, comprising: a rocker mounted to pivot about a horizontal pivoting axis located in the separating liquid bath, the rocker arranged to carry the solid material mixtures in the liquid bath; a hydraulic cylinder, a displacement measuring device, a displacement sensor, a governor arranged to receive the displacement signal from the displacement sensor and to generate a control signal; a motor driven hydraulic oil pump; a hydraulic oil supply and evacuation conduit connected to the single working pressure chamber; a proportional control valve located in the hydraulic oil supply and evacuation conduit and arranged to receive the control signal from the governor, the proportional control valve being configured to have a first lifting position in which the motor driven hydraulic oil pump is connected to the single working pressure chamber via the proportional control valve, a second free-fall position in which the single working

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pressure chamber is unrestrictedly connected to a hydraulic oil sump, and a third deceleration position in which the single working pressure chamber is closed off from the hydraulic oil pump and reservoir; and wherein, in a first lifting phase hydraulic oil is provided through the proportional control valve while it is in the first lifting position and the hydraulic oil supply and evacuation conduit to the single working pressure chamber to pivotally lift the rocker, in a second free-fall phase hydraulic oil is permitted to flow out of the single working pressure chamber through the hydraulic oil supply and evacuation conduit and proportional control valve in the second free-fall position essentially unrestricted, and in a third deceleration phase hydraulic oil is permitted to flow out of the single working pressure cylinder through the hydraulic oil supply and evacuation conduit and the proportional control valve in the deceleration position or free-fall position in accordance with the control signal from the governor.

Claim 18 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: (1) a sieve jigger for sorting solid material mixtures in a separating liquid bath according to density, comprising: a rocker mounted to pivot about a pivoting axis, the rocker arranged to carry the solid material mixtures in the liquid bath; a hydraulic cylinder having a piston and a single working pressure chamber; a displacement measuring device operatively connected to the piston and configured to generate a measuring signal; a displacement sensor arranged to receive the measuring signal from the displacement measuring device and to generate a displacement signal; a governor

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arranged to receive the displacement signal from the displacement sensor and to generate a control signal; a motor driven hydraulic oil pump; a hydraulic oil supply and evacuation conduit connected to the single working pressure chamber; a proportional control valve communicating with the hydraulic oil supply and evacuation conduit and arranged to receive the control signal from the governor, the proportional control valve being configured to have a first lifting position in which the motor driven hydraulic oil pump is connected to the single working pressure chamber via the proportional control valve, a second free-fall position in which the single working pressure chamber is unrestrictedly connected to a hydraulic oil sump, and a third deceleration position in which the single working pressure chamber is closed off from the hydraulic oil pump and reservoir; and wherein, in a first lifting phase hydraulic oil is provided through the proportional control valve while it is in the first lifting position and the hydraulic oil supply and evacuation conduit to the single working pressure chamber to pivotally lift the rocker, in a second free-fall phase hydraulic oil is permitted to flow out of the single working pressure chamber through the hydraulic oil supply and evacuation conduit and proportional control valve in the second free-fall position essentially unrestricted, and in a third deceleration phase hydraulic oil is permitted to flow out of the single working pressure cylinder through the hydraulic oil supply and evacuation conduit and the proportional control valve in the deceleration position or free-fall position in accordance with the control signal from the governor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell H. Matthews whose telephone number is (571)272-5929. The examiner can normally be reached on M-F 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrick H. Mackey/
Supervisory Patent Examiner, Art
Unit 3653

/Terrell H Matthews/

Application/Control Number: 10/536,521
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Examiner, Art Unit 3653